Data Sheet
Fujitsu Server PRIMERGY TX300 S7 Tower Server

No compromise tower server

Fujitsu Server PRIMERGY TX Tower Servers are ideal for use in SMEs or branch offices. They increase operational efficiency by providing rock solid, record-breaking, energy efficient performance. That performance is built on 20-years of pioneering work in Green IT. As a customer, you benefit from a reduction in your organization's environmental impact and lower running costs. The reliability is proven by testing the machines through 5000 boot cycles – far more than other vendors do. PRIMERGY TX servers are also easy to manage via the PRIMERGY ServerView Suite, reducing IT admin workload and costs. Plus, tower to rack conversion kits are available for most TX systems, ensuring investment protection.

PRIMERGY TX300 S7

The Fujitsu Server PRIMERGY TX300 S7 is a no compromise tower server with maximum levels of performance, expandability and availability. It combines the performance of Intel® Xeon® processors E5 family with up to two 6GB general-purpose computing on graphics processing units (GPGPU) for computationally intensive applications. The expandability is excellent thanks to the 10 expansion slots and up to 24 2.5-inch hard disks. Thanks to the high availability offered by a choice of LAN cards, redundant fans and up to 4 hot-plug power supplies, the TX300 S7 is suited to database, virtualization or high performance computing scenarios. Moreover, the TX300 S7 power supplies reach energy efficiency levels of 94%, minimizing running costs and the environmental impact.

Features & Benefits

Main Features	Benefits
Meet today's demand and be prepared for future requirements	
■ Intel Xeon E5-2600 product family with up to 8 core processors and Turbo Boost 2.0	■ Increased performance of at least 30% compared to the previous generation
■ Up to 2 NVIDIA® Tesla™ C2075 general-purpose computing on graphics processing units (GPGPU) with 448 cores each	■ Optimized for business applications, cloud and virtualization as well as for computationally intensive applications, e.g. high performance computing (HPC) or computer tomography
Lifecycle investment protection	
■ Expanded scalability of up to 24 DIMMs with 768 GB memory, up to 24 hard disk drives and 10 PCIe slots	■ Maximum expandability to meet future demand
■ New modular concept for the base unit as well as a choice for LAN controller, RAID controller and power supplies	■ Individual and cost-saving configuration of the server according to the need of today with upgrade option to meet the demand of tomorrow
■ Upgrade kits for hard disk drives, backup devices as well as LTO drives	■ Upgrade kits save budget as the system can be upgraded when the company grows and thus protect the investment ■ Ability to protect the data by integrating LTO drives
Cost efficient operations	
■ Simplified power management with profils for 'minimum power' and 'low-noise'	■ Simplified and comprehensive power management that results with the high efficient power supplies in significant savings
■ 4 hot-plug PSU with 94% efficiency	
■ Fujitsu ServerView Suite offers tools for installation and deployment, permanent status monitoring and control. A wide range of integration packs allow a seamless and easy integration in widely-used enterprise management systems.	■ Fujitsu ServerView Suite provides all the functions for fail-safe, flexible and automated 24x7 server operations and improves end-user productivity via intelligent and innovative system management solutions.

Technical details

PRIMERGY TX300 S7		
Housing types	Tower	Tower
Storage drive architecture	3.5-inch	2.5-inch
Power supply	Hot-plug	Hot-plug
Mainboard		
Mainboard type	D2949	
Chipset	Intel® C600 (Intel® Patsburg A)	
Processor quantity and type	1 - 2 x Intel® Xeon® processor E5-2600 product family	
Memory slots	24 (12 DIMMs per CPU, 4 channels with 3 slots per channel)	
Memory slot type	DIMM (DDR3)	
Memory capacity (min. - max.)	2 GB - 768 GB	
Memory protection	Advanced ECC Memory Scrubbing SDDC (Chipkill™) Rank sparing memory support Memory Mirroring support	
Memory notes	Max. 8 memory modules/CPU with UDIMM (low voltage or standard) OR quad-rank RDIMM; max. 12 memory modules/CPU with single or dual-rank RDIMM or single, dual-rank or quad-rank Load-Reduced (LR) DIMM. Memory Mirroring with identical modules in both channel pairs of a bank (4 modules per bank), Rank sparing or Performance Mode with identical modules in all four channels (4 modules per bank).	
Interfaces		
USB 2.0 ports	10 x USB 2.0 (2x front, 4x rear, 2x internal for backup devices, 1x USB stick, 1x USSD)	
Graphics (15-pin)	2 x VGA (thereof 1x front optional)	
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC S3 or system or shared	
LAN / Ethernet	2 x Gbit/s Ethernet (RJ45) with upgrade options for additional 2x1 Gbit/s (RJ45), 4x 1 Gbit/s (RJ45) or 2x 10 Gbit/s (SFP+)	
Service LAN (RJ45)	1 x dedicated management LAN port for iRMC S3 (10/100/1000 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port or optional Modular LAN 2x10Gbit controller Front management LAN port as option	
Onboard or integrated Controller		
RAID controller	4 port for internal 3G SATA and SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/10 or SAS LTO device (Intel C600) additional RAID controller options are described under Components RAID controller	
SATA Controller	Intel® C600, 2 x SATA channel for DVD	
LAN Controller	Intel® Ethernet Controller I350, 2 x 10/100/1000 Mbit/s Ethernet (I/O acceleration), Modular integrated on-board LAN offers upgrade options for additional 2x1 Gbit/s , 4x 1 Gbit/s or 2x 10 Gbit/s. PXE-Boot via LAN from PXE server, iSCSI boot (also diskless)	
Remote Management Controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller) IPMI 2.0 compatible	
GPU / Coprocessor	1-2 NVIDIA® Tesla™ C2075 GPGPU 1-2 NVIDIA® Tesla™ K20 and K20X GPGPU 1-2 Intel® Xeon® Phi 5110P coprocessor	
Trusted Platform Module (TPM)	Infineon / separate module; TCG V1.2 compliant (option)	
Slots		
PCI-Express 3.0 x4 (mech. x8)	2 x Full height (2nd processor required)	
PCI-Express 3.0 x8	4 x Full height (1 is reserved for Modular RAID controller)	
PCI-Express 3.0 x8 (mech. x16)	1 x Full height	
PCI-Express 3.0 x16	2 x Full height (2nd processor required)	
PCI-Express 2.0 x4 (mech. x8)	1 x Full height (2nd processor required)	
Slot Notes	One PCIe Gen3 x8 slot may be occupied with a modular LAN controller if configured. One PCIe Gen3 x8 slot may be occupied with a modular RAID controller if configured. Important: 5 PCIe slots are supported with the first processor. 10 PCIe slots are supported with two processors.	

Storage drive bays	3.5-inch or 2.5-inch hot-plug SAS/SATA	
Accessible drive bays	3 x 5.25/1.6-inch	
Notes accessible drives	All possible options described in relevant system configurator.	
Drive bays		
Storage drive bays	Max 12 (4 + 4 + 4) x 3.5-inch	Max 24 (8 + 8 + 8) x 2.5-inch
Optional accessible drives	3x 5.25/1.6-inch bay for accessible devices (HDD: 4x 3.5-inch hot-plug SAS/SATA or LTO drive)	3x 5.25/1.6-inch bay for accessible devices (HDD: 8x 2.5-inch hot-plug SAS/SATA and LTO drive)
Number of fans	6	
Fan configuration	4 + 2 redundant / hot-plug	
Operating panel		
Operating buttons	On/off switch Reset button NMI button ID button	
Status LEDs	System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)	
Service display	Optional: ServerView Local Service Display (LSD)	
BIOS		
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support	
Operating Systems and Virtualization Software		
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473	
Operating system notes	Support of other Linux derivatives on demand	
Server Management		
Standard	ServerView Remote Management (iRMC)	
Option	ServerView Suite - Deploy SV Deployment Manager (full version) ServerView Suite - Maintain iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage ServerView Suite - Dynamize SV Virtual-IO Manager (VIOM) SV Resource Orchestrator Virtual Edition (ROR VE) SV Resource Orchestrator Cloud Edition (ROR CE) ServerView Suite - Integrate SV Integration pack for Fujitsu ManageNow® solution	
Server Management notes	Regarding Operating System dependencies for ServerView Suite Software Products see dedicated Product Data sheets.	
Dimensions / Weight		
Floor-stand (W x D x H)	177 x 777 x 456 mm	
Weight	up to 35 kg	
Weight notes	Actual weight may vary depending on configuration	

Dimensions / Weight	
Rack integration kit	Rack integration kit as option

Environmental	
Operating ambient temperature	10 - 35 °C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	Low noise mode: Standard Fan Configuration: 32 dB(A) (idle) / 33 dB(A) (operating) Redundant Fan Configuration: 33 dB(A) (idle) / 34 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	Low noise mode: Standard Fan Configuration: 5.0 B (idle) / 5.0 B (operating) Redundant Fan Configuration: 5.1 B (idle) / 5.1 B (operating)
Noise notes	Noise emissions and operation modes depend on system configuration. Availability of the low noise mode depends on system configuration. To order an eligible system use the checkbox Enabling low noise mode in System Architect.

Electrical values	
Power supply configuration	1-4x 450 W/800 W hot-plug power supply
Hot-plug power supply output	450/800 W (94 % efficiency, 80 PLUS platinum)
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current in basic configuration	100 V - 240 V / TBD
Active power (max. configuration)	1070 W
Apparent power (max. configuration)	1080 VA
Heat emission	3852.0 kJ/h (3651.0 BTU/h)
Power Supply Notes	Power Safeguard adapts system performance in case the wattage exceeds supply limits.

http://ts.fujitsu.com/products/standard_servers/e_efficient.html

Compliance	
Germany	GS
Europe	CE Class A *
USA/Canada	CSAc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI
China	CCC (depending on configuration)
Australia/New Zealand	C-Tick
Taiwan	CNS 13438 class A
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Global		
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates	http://globalsp.ts.fujitsu.com/sites/certificates

Components

Warranty	
Standard Warranty	3 years

Warranty	
Service level	Onsite Service (depending on country)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM

Maintenance and Support Services - the perfect extension

Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX300 S7, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX300 S7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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